

EARTHENERGY™



Braddock house



As part of an ongoing commitment to environmentally friendly housing, Metropolitan Housing Trust specified a total of 17 EarthEnergy™ systems for their new bungalows in Nottingham.

The bungalows incorporated good levels of insulation and only required a 3.5 kW to meet space and domestic hot water requirements.

A single borehole, drilled to a depth of around 75 metres was required to collect the EarthEnergy™ for each property. As the top of each borehole and associated flow and return header pipework is 1.2 metres underground, there are no external visible signs of the installation.

There are several benefits to the tenants, landlords and environment associated with this installation. Based on current oil prices the tenants should save between £100 to £200 per year on fuel for heating and domestic hot water. Metropolitan Housing trust will probably save £200 per property per annum on maintenance costs, (ground source heat pumps require minimal maintenance). And compared to oil, CO₂ emissions are reduced by almost 40 tonnes per annum.

Ground Loop	<i>1 No. 60 - 80 metre deep borehole per property</i>
Heat Pump	<i>3.5 kilowatt Calorex 3500 DT – one per property</i>
Distribution System	<i>Wet underfloor</i>
Client	<i>Metropolitan Housing Trust</i>
Mechanical & Electrical	<i>MHT contractors</i>
Commissioned	<i>March 2003</i>